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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,269	03/23/2004	Mika Sippola	116598-00113	1945
27557	7590 11/15/2005		EXAMINER	
BLANK ROME LLP 600 NEW HAMPSHIRE AVENUE, N.W. WASHINGTON, DC 20037			PIZARRO CRESPO, MARCOS D	
			ART UNIT	PAPER NUMBER
	, 20 2000		2814	
			DATE MAILED: 11/15/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		KK
· ·	Application No.	Applicant(s)
	10/806,269	SIPPOLA, MIKA
Office Action Summary	Examiner	Art Unit
The MAN INC DATE of this commission time	Marcos D. Pizarro-Crespo	2814
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with th	e correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATI 1.136(a). In no event, however, may a reply be od will apply and will expire SIX (6) MONTHS fr tute, cause the application to become ABANDO	ON. be timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
1)	his action is non-final. wance except for formal matters,	
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the applicating 4a) Of the above claim(s) 3-9 and 13-20 is/as 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2 and 10-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-20 are subject to restriction and/or	re withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam		
10) ☑ The drawing(s) filed on <u>3/23/2004</u> is/are: a)[
Applicant may not request that any objection to to Replacement drawing sheet(s) including the corr		
11) The oath or declaration is objected to by the		
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a light	ents have been received. ents have been received in Applic riority documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) I) ⊠ Notice of References Cited (PTO-892)	4) ☐ Interview Summ	any (PTO.413)
 Notice of References Cited (PTO-992) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/6 Paper No(s)/Mail Date 6/14/2004. 	Paper No(s)/Mai	

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Attorney's Docket Number: 116598-00113

Filing Date: 3/23/2004

Claimed Foreign Priority Dates: 10/23/2002 (Continuation of PCT/EP02/11839)

10/23/2001 (FI 20012052)

Applicant(s): Sippola

Examiner: Marcos D. Pizarro-Crespo

DETAILED ACTION

This Office action responds to the election filed on 9/29/2005.

Election/Restrictions

1. Applicant's election without traverse of claims 1, 2, 10, 11, and 12 reading on elected species 8 as it was listed in the restriction requirement mailed on 8/10/2005 is acknowledged. Claims 3-9 and 13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 2, and 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Kim (US 6225688).
- 6. Regarding claim 1, Kim shows all/most aspects of the instant invention including a multilayer circuit comprising a flexible sheet **310** of insulating material having two sides, wherein:
 - Sections of electrical circuit are attached to both of the two sides 620/624
 (see, e.g., fig. 12)
 - The flexible sheet is folded along folding lines (see, e.g., fig. 15)
 - The folding lines divide the sheet into consecutive segments
 - Folding the sheet form a multilayer structure having conductor layers and insulator layers stacked above each other (see, e.g., fig. 15)
 - At least two consecutive sections of electric circuit that must be insulated from each other are disposed on different sides of the sheet (see, e.g., figs. 12, 15)
- 7. Regarding claim 2, Kim shows that consecutive sections of electric circuit that must be insulated from each other are insulated by one single ply of the flexible sheet (see, *e.g.*, fig. 15).

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8. Regarding claim 10, Kim shows the circuit including magnetic and/or electric and/or electronic components **626** (see, *e.g.*, fig. 15).

9. Regarding claim 11, Kim shows the components are inside the multilayer structure (see, *e.g.*, fig. 15).

10. Regarding claim 12, Kim shows the circuit including cavity and apertures (see, e.g., figs. 15, 25).

Conclusion

- 11. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. Papers should be faxed to Art Unit 2814 via the Art Unit 2814 Fax Center. The faxing of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (571) 273-8300. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcos D. Pizarro-Crespo at (571) 272-1716 and between the hours of 9:30 AM to 8:00 PM (Eastern Standard Time) Monday through Thursday or by e-mail via Marcos.Pizarro@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.
- 13. Any inquiry of a general nature or relating to the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or

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Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

14. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/666-733	11/12/2005
Other Documentation:	
Electronic Database(s): EAST (USPAT, EPO, JPO)	11/12/2005

Marcos D. Pizarro-Crespo

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Patent Examiner
Art Unit 2814
571-272-1716

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MDP/mdp November 12, 2005